TEJUS
CONSULTANTS

Test Report on Cement

Project	Contruction of RCC Retaing wall near water tank (Behind gvnt School) in Sanjeevini Nagar ward no7 Byataranapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	06.08.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	351 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

Note:
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TEJUS CONSULTANTS

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Bangalore.

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CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Detailed Estimate for Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	06-08-2019
Period of Soaking	24 hours	**Date of Testing**	06-08-2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2		
A	Weight of sturated surface dry sample gm.		651	680	670	
B	Weight of oven - dry sample gm.		642	671	662	
C	Weight of Pycnometer Filled with water gm		1275	1275	1273	
D	Weight of Pycnometer + sample + water gm		1684	1699	1690	
E	Bulk specific gravity	B / (C + A - D)	2.653	2.621	2.617	2.630
G	Absorption (%)	(A - B) *100 / B	1.402	1.341	1.208	1.317

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TEST REPORT					
Clients					
Project		Detailed Estimate for Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .			
Consultants		TEJUS CONSULTANTS Basaveshwar Nagar Bangalore			
Contractor		Sri. N Lokanath Reddy			
Total Weight:	3000 gms				
Type of Material	**Fine aggregate (River Sand/ M sand)**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampling**	06-08-2019	
			Date of Testing	06-08-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	219	219	7.30	92.70	**90 - 100**
2.36 mm	315	534	17.80	82.20	**75 - 100**
1.18 mm	421	955	31.83	68.17	**55 - 90**
0.600 mm	487	1442	48.07	51.93	**35 -59**
0.300 mm	767	2209	73.63	26.37	**8-30**
0.150 mm	637	2846	94.87	5.13	**0 - 10**
Pan	154	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	06-08-2019	
			Date of Testing	06-08-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	262	262	2.62	97.38	**95 - 100**
10.00 mm	4833	5095	50.95	49.05	**25 - 55**
4.75 mm	4227	9322	93.22	6.78	**0 - 10**
Pan	678	10000			
Remarks :			✓ Satisfactory / Not Satisfactory		

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Detailed Estimate for Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Site/Plant		**Date of Sampling**	06-08-2019	
			Date of Testing	06-08-2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	528	528	5.28	94.72	**90-100**
10.0	4686	5214	52.14	47.86	**40-85**
4.75	4536	9750	97.50	2.50	**0-10**
Pan	250	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-08-2019	13-08-2019	7 days	8.122	22500	283	12.58	12.62
2	06-08-2019	13-08-2019	7 days	8.146	22500	285	12.67	
3	06-08-2019	13-08-2019	7 days	8.142	22500	284	12.62	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-08-2019	03-09-2019	28 days	8.136	22500	430	19.11	19.20
2	06-08-2019	03-09-2019	28 days	8.142	22500	432	19.20	
3	06-08-2019	03-09-2019	28 days	8.148	22500	434	19.29	

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Test Report on Cement

Project	Contruction of RCC Retaing wall near water tank (Behind gvnt School) in Sanjeevini Nagar ward no7 Byataranapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	07.08.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	338 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Detailed Estimate for Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	07-08-2019
Period of Soaking	24 hours	**Date of Testing**	07-08-2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		645	670	646	
B	Weight of oven - dry sample gm.		637	660	638	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1680	1705	1675	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.654	2.750	2.593	2.666
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.256	1.515	1.254	1.342

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TEST REPORT					
Clients		Bruhat Bangalore Mahanagara Palike			
Project		Detailed Estimate for Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .			
Consultants		TEJUS CONSULTANTS Basaveshwar Nagar Bangalore			
Contractor		Sri. N Lokanath Reddy			
Total Weight:	3000	gms			
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	concrete	
Sample Location	At Site/Plant		Date of Sampling	07-08-2019	
			Date of Testing	07-08-2019	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	213	213	7.10	92.90	90 - 100
2.36 mm	302	515	17.17	82.83	75 - 100
1.18 mm	411	926	30.87	69.13	55 - 90
0.600 mm	484	1410	47.00	53.00	35 -59
0.300 mm	765	2175	72.50	27.50	8-30
0.150 mm	641	2816	93.87	6.13	0 - 10
Pan	184	3000			-
Remarks :		✓ Satisfactory / Not Satisfactory			

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	07-08-2019	
			Date of Testing	07-08-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	248	248	2.48	97.52	**95 - 100**
10.00 mm	4842	5090	50.90	49.10	**25 - 55**
4.75 mm	4221	9311	93.11	6.89	**0 - 10**
Pan	689	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Detailed Estimate for Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Site/Plant		**Date of Sampling**	07-08-19	
			Date of Testing	07-08-19	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	550	550	5.50	94.50	90-100
10.0	4673	5223	52.23	47.77	40-85
4.75	4533	9756	97.56	2.44	0-10
Pan	244	10000			

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07.08.2019	14.08.2019	7 days	8.132	22500	281	12.49	12.59
2	07.08.2019	14.08.2019	7 days	8.148	22500	283	12.58	
3	07.08.2019	14.08.2019	7 days	8.143	22500	286	12.71	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07.08.2019	04.09.2019	28 days	8.136	22500	434	19.29	19.30
2	07.08.2019	04.09.2019	28 days	8.142	22500	435	19.33	
3	07.08.2019	04.09.2019	28 days	8.148	22500	434	19.29	

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Test Report on Cement

Project	Contruction of RCC Retaing wall near water tank (Behind gvnt School) in Sanjeevini Nagar ward no7 Byataranapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	10.08.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	33Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	351 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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